

ABSTRACT

A dynamic planning method (DPM) generates a DPM project planning model. The DPM project planning model provides an activity pre-structured process model for activities of a DPM project plan. The DPM project planning model also provides a relationship pre-structured model for activity time precedence relationships of the DPM project plan. The DPM project planning model is dynamically adjusted to generate a DPM project plan, whereby reliability buffers are associated with one or more activities of the plan. Time precedence relationships are associated with the reliability buffers and with the activities. A variety of DPM simulation outputs are also generated. The DPM simulation outputs provide a comparison of the DPM project plan with conventional project plans generated by conventional project planning models.